

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/505, 328Source: PCTDate Processed by STIC: 01/11/2-006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE <u>CHECKER</u> <u>VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

11.11.1 11.4 11.4

| Manual Transport of the Control of t | SUGGESTED CORRECTION . SERIAL NUMBER: 10/505 328 |
|--|--|
| ERROR DETECTED | |
| Adria e alemanenti e e | PIEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE |
| Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping." |
| 2Invalid Line Length | The rules require that a line not exceed 72 characters in length. This includes white spaces. |
| 3Misaligned Amino Numbering | The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead. |
| 4Non-ASCII | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text. |
| 5Variable Length | Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. |
| 6PatentIn 2.0 "bug" | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. |
| 7Skipped Sequences (OLD RULES) | Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped |
| | Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. |
| 8Skipped Sequences (NEW RULES) | Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000 |
| 9Use of n's or Xaa's (NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. |
| 10Invalid <213> Response | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown o is Artificial Sequence |
| Use of <220> | Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register." 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules) |
| PatentIn 2.0 "bug" | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. |
| 13 Misuse of n/Xaa | "n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u> |
| | AMC - Biotechnology Systems Branch - 09/09/2003 |



PCT

RAW SEQUENCE LISTING

DATE: 01/11/2006 TIME: 13:11:51

PATENT APPLICATION: US/10/505,328

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

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             GENOME BY Tn5-COUPLED Cre/loxP EXCISION SYSTEM
      7 <130> FILE REFERENCE: 02730.0020.PCUS00
      9 <140> CURRENT APPLICATION NUMBER: 10/505,328
C--> 11 <141> CURRENT FILING DATE: 2004-08-23
                                                                  Does Not Comply
     11 <150> PRIOR APPLICATION NUMBER: PCT/KR02/02033
                                                                  Corrected Diskette Needed
     12 <151> PRIOR FILING DATE: 2002-10-31
     14 <150> PRIOR APPLICATION NUMBER: KR 10-2002-0009647
     15 <151> PRIOR FILING DATE: 2002-02-22
     17 <160> NUMBER OF SEQ ID NOS: 13
     19 <170> SOFTWARE: KopatentIn 1.71
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     24 <213> ORGANISM: Artificial Sequence
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     27 <223> OTHER INFORMATION: TnKGloxP
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                                                                                  120
     35 actgcggatc ttgcggccgc aaaaattaaa aatgaagttt tgacggtatc gaaccccaga
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     37 gtcccgctca gaagaactcg tcaagaaggc gatagaaggc gatgcgctgc gaatcgggag
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     39 cggcgatacc gtaaagcacg aggaagcggt cagcccattc gccgccaagc tcttcagcaa
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     45 gggtcacgac gagatecteg cegtegggea teegegeett gageetggeg aacagttegg
                                                                                  480
     47 ctggcgcgag cccctgatgc tcttcgtcca gatcatcctg atcgacaaga ccggcttcca
                                                                                  540
                                                                                  600
     49 tecgagtacg tgetegeteg atgegatgtt tegettggtg gtegaatggg caggtageeg
     51 gatcaagcgt atgcagccgc cgcattgcat cagccatgat ggatactttc tcggcaggag
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     53 caaggtgaga tgacaggaga tcctgccccg gcacttcgcc caatagcagc cagtcccttc
                                                                                  720
     55 ccgcttcagt gacaacgtcg agcacagctg cgcaaggaac gcccgtcgtg gccagccacg
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                                                                                 900
    61 tetgttgtge ceagteatag cegaatagee tetecaceca ageggeegga gaacetgegt
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    63 gcaatccatc ttgttcaatc atgcgaaacg atcctcatcc tgtctcttga tccactagat
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    65 tattgaagca tttatcaggg ttattgtctc atgagcggat acatatttga atgtatttag
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    67 aaaaataaac aaataggggt teegegeaca ttteeeegaa aagtgeeace tgeategatg
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    69 aattgateeg aagtteetat tetetagaaa gtataggaae ttegaattgt egacaagett
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    71 gatctggctt atcgaaatta atacgactca ctatagggag accggaattc attatttgta
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    73 gageteatee atgecatgtg taateeeage ageagttaca aacteaagaa ggaceatgtg
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1440

RAW SEQUENCE LISTING DATE: 01/11/2006
PATENT APPLICATION: US/10/505,328 TIME: 13:11:51

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

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|---|------|
| 81 tttgtctgcc gtgatgtata cattgtgtga gttatagttg tactcgagtt tgtgtccgag | 1560 |
| 83 aatgtttcca tcttctttaa aatcaatacc ttttaactcg atacgattaa caagggtatc | 1620 |
| 85 accttcaaac ttgacttcag cacgcgtctt gtagttcccg tcatctttga aagatatagt | 1680 |
| 87 gcgttcctgt acataacctt cgggcatggc actcttgaaa aagtcatgcc gtttcatatg | 1740 |
| 89 atccggataa cgggaaaagc attgaacacc ataagagaaa gtagtgacaa gtgttggcca | 1800 |
| 91 tggaacaggt agttttccag tagtgcaaat aaatttaagg gtaagttttc cgtatgttgc | 1860 |
| 93 atcaccttca ccctctccac tgacagaaaa tttgtgccca ttaacatcac catctaattc | 1920 |
| 95 aacaagaatt gggacaactc cagtgaaaag ttcttctcct ttactcattt tttctaccgg | 1980 |
| 97 tacccgggga tcctctagag tcgacctgca ggcatgcaag cttggcgtaa tcatggtcat | 2040 |
| 99 agctgtttcc tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa | 2100 |
| 101 gcataaagtg taaagcctgg ggtgcctaat gagtgagcta actcacatta attgcgttgc | 2160 |
| 103 gctcactgcc cgctttccag tcgggaaatc caagggcgaa ttcgagctcg gtaccgggcc | 2220 |
| 105 ccccctcgag ggacctaata acttcgtata gcatacatta tacgaagtta tattaagggt | 2280 |
| 107 teeggateet etagagtaga cetetagagt egacetgeag geatgeaage tteagggttg | 2340 |
| 109 agatgtgtat aagagacagc tgcattaatg aatcggccaa cgcgcgggga gaggcggttt | 2400 |
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| 119 <220> FEATURE: | |
| 120 <223> OTHER INFORMATION: TnCloxP | |
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| 126 gctgtctctt atacacatct caaccatcat cgatgaattc gagctcggta ccgcaaaaat | 120 |
| 128 taaaaatgaa gttttaaatc aatctaaagt atatatgagt aaacttggtc tgacagttac | 180 |
| 130 caatgcttaa tcagtgaggc accaataact gccttaaaaa aattacgccc cgccctgcca | 240 |
| 132 ctcatcgcag tactgttgta attcattaag cattctgccg acatggaagc catcacagac | 300 |
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| 138 ggtgaaactc acccagggat tggctgagac gaaaaacata ttctcaataa accctttagg | 480 |
| 140 gaaataggcc aggttttcac cgtaacacgc cacatcttgc gaatatatgt gtagaaactg | 540 |
| 142 ccggaaatcg tcgtggtatt cactccagag cgatgaaaac gtttcagttt gctcatggaa | 600 |
| 144 aacggtgtaa caagggtgaa cactatccca tatcaccagc tcaccgtctt tcattgccat | 660 |
| 146 acggaatttc ggatgagcat tcatcaggcg ggcaagaatg tgaataaagg ccggataaaa | 720 |
| 148 cttgtgctta tttttcttta cggtctttaa aaaggccgta atatccagct gaacggtctg | 780 |
| 150 gttataggta cattgagcaa ctgactgaaa tgcctcaaaa tgttctttac gatgccattg | 840 |
| 152 ggatatatca acggtggtat atccagtgat ttttttctcc attttagctt ccttagctcc | 900 |
| 154 tgaaaatctc gataactcaa aaaatacgcc cggtagtgat cttatttcat tatggtgaaa | 960 |
| 156 gttggaacct cttacgtgcc gatcaacgtc tcattttcgc caaaagttgg cccagggctt | 1020 |
| 158 cccggtatca acagggacac caggatttat ttattctgcg aagtgatctt ccgtcacagg | 1080 |
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| 162 ggtgtttttg aggtgctcca gtggcttctg tttctatcag catcgatgaa ttgatccgaa | 1200 |
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| 166 cgaaattaat acgactcact atagggagac cggaattcga gctcggtacc gggccccccc | 1320 |
| 168 tcgagggacc taataacttc gtatagcata cattatacga agttatatta agatcctcta | 1380 |
| 170 gagtcgacct gcaggcatgc aagcttcagg gttgagatgt gtataagaga cagctgcatt | 1440 |
| 172 aatgaategg ecaaegegeg gggagaggeg gtttgegtat tgggegetet teegetteet | 1500 |
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/505,328

DATE: 01/11/2006 TIME: 13:11:51

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Output Set: N:\CRF4\01112006\J505328.raw

| 174 cgctcactga c | Ì511 |
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| 177 <210> SEQ ID NO: 3 | |
| 178 <211> LENGTH: 19 | ^ |
| 179 <212> TYPE: DNA | e aloualion. |
| 180 <213> ORGANISM: Artificial Sequence | J Expression |
| 182 <220> FEATURE: | anace of |
| 183 <223 > OTHER INFORMATION: (OE sequence) | the sould pla see |
| 186 <400> SEQUENCE: 3 | later P13 |
| 187 ctgtctctta tacacatct | March 19 |
| 190 <210> SEQ ID NO: 4 | t Explanation. The Source of Jee Malened. Pls Jee Malened. Pls Jee Malened. Pls Jee Summer Sheet. |
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| 196 <223> OTHER INFORMATION: loxP site | |
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| 217 cgaggaagcg gtcagcccat tcgccgccaa gctcttcagc aatatcacgg gtagcc | |
| 219 ctatgtcctg atagcggtcc gccacaccca gccggccaca gtcgatgaat ccagaa | |
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| 223 cgccgtcggg catccgcgcc ttgagcctgg cgaacagttc ggctggcgcg agcccc | tgat 360 |
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| 229 gccgcattgc atcagccatg atggatactt tctcggcagg agcaaggtga gatgac | agga 540 |
| 231 gatectgece eggeactteg eccaatagea gecagteett tecegettea gtgaca | acgt 600 |
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| 243 ggttattgtc tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaat | aggg 960 |
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| 254 <223> OTHER INFORMATION: GFP gene | |
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RAW SEQUENCE LISTING DATE: 01/11/2006
PATENT APPLICATION: US/10/505,328 TIME: 13:11:51

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

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| | ctgctagttg aacggatcca t | | | | | 240 |
| | cattettttg tttgtetgee g | | | | | 300 |
| | tgtgtccgag aatgtttcca t | | | | | 360 |
| | caagggtatc accttcaaac t | | | | | 420 |
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| | gtttcatatg atccggataa c | | | | | 540 |
| | gtgttggcca tggaacaggt a | | | | | 600 |
| | cgtatgttgc atcaccttca c | | | | | 660 |
| | catctaattc aacaagaatt g | | | | | 720 |
| | tttctaccgg tacccgggga t | | | | | 780 |
| | tcatggtcat agctgtttcc t | | | | | 840 |
| | cgagccggaa gcataaagtg t | | | | actcacatta | 900 |
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| | <211> LENGTH: 1069 | | | | | |
| | <212> TYPE: DNA | aial Compor | | | | |
| | <213> ORGANISM: Artific | crar sequer | ice | | | |
| | <223> OTHER INFORMATION | J. CmP conc | | | | |
| | <400> SEQUENCE: 7 | v: Clirk gene | 3 | | | |
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| | acagttacca atgcttaatc a | | | | | 120 |
| | ccctgccact catcgcagta o | | | | | 180 |
| | tcacagacgg catgatgaac c | | | | | 240 |
| | taatatttgc ccatggtgaa a | | | | | 300 |
| | tcaaaactgg tgaaactcac c | | | | | 360 |
| | cctttaggga aataggccag g | | | | | 420 |
| | agaaactgcc ggaaatcgtc g | | | | | 480 |
| | tcatggaaaa cggtgtaaca a | | | | | 540 |
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| | ggataaaact tgtgcttatt t | | | | | 660 |
| | acggtctggt tataggtaca t | | | | | 720 |
| | tgccattggg atatatcaac g | | | | | 780 |
| | ttagctcctg aaaatctcga t | | | | | 840 |
| | tggtgaaagt tggaacctct t | | | | | 900 |
| | cagggettee eggtateaae a | | | | | 960 |
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| 341 | 41 <213> ORGANISM: Artificial Sequence | | | | | |
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| 351 | <210> SEQ ID NO: 9 | | | | | |
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/505,328 TIME: 13:11:51

DATE: 01/11/2006

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

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the n localions:
See page 7 for
Error Explanation. 380 <213> ORGANISM: Artificial Sequence 382 <220> FEATURE: 383 <223> OTHER INFORMATION: primer-Arb1 386 <400> SEQUENCE: 11 W--> 387 ttgagcgata gacgtacgat (nnnnnnnnnn 390 <210> SEQ ID NO: 12 391 <211> LENGTH: 20 392 <212> TYPE: DNA 393 <213> ORGANISM: Artificial Sequence 395 <220> FEATURE: 396 <223> OTHER INFORMATION: primer-Arb2 399 <400> SEQUENCE: 12 400 ttgagcgata gacgtacgat 20 403 <210> SEQ ID NO: 13 404 <211> LENGTH: 25 405 <212> TYPE: DNA 406 <213> ORGANISM: Artificial Sequence 408 <220> FEATURE: 409 <223> OTHER INFORMATION: primer-Tn5Int 412 <400> SEQUENCE: 13 413 tcgacctgca ggcatgcaag cttca 25 RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/11/2006 PATENT APPLICATION: US/10/505,328

TIME: 13:11:52

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 21,22,23,24,25,26,27,28,29,36

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 4

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/505,328

DATE: 01/11/2006

TIME: 13:11:52

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

NEW RULES):

Serror Explanation

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

 $Seq\#{:}11; \ N \ Pos. \ 21,22,23,24,25,26,27,28,29,30$

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/505,328

DATE: 01/11/2006 TIME: 13:11:52

Input Set : A:\Sequence.TXT

Output Set: N:\CRF4\01112006\J505328.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:387 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:11
L:387 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:11

L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0

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